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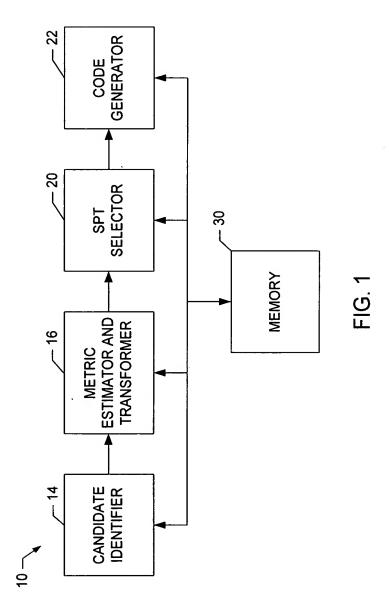
FIG. 1

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FIG. 2

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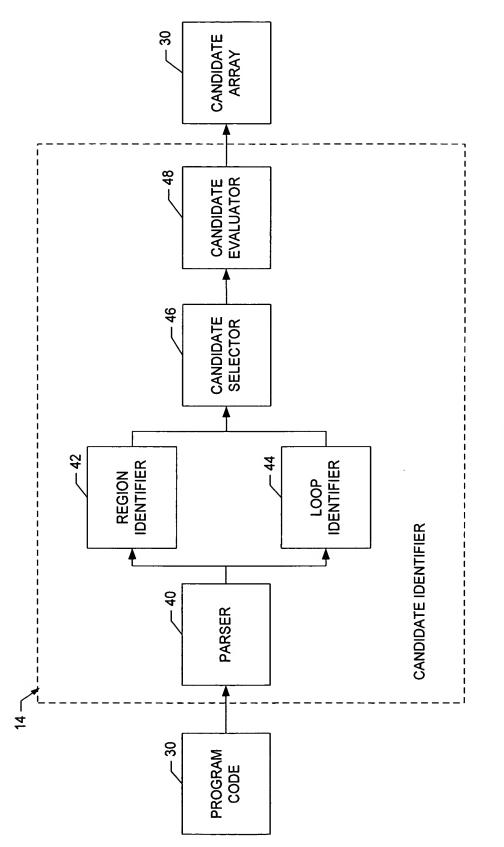


FIG. 2

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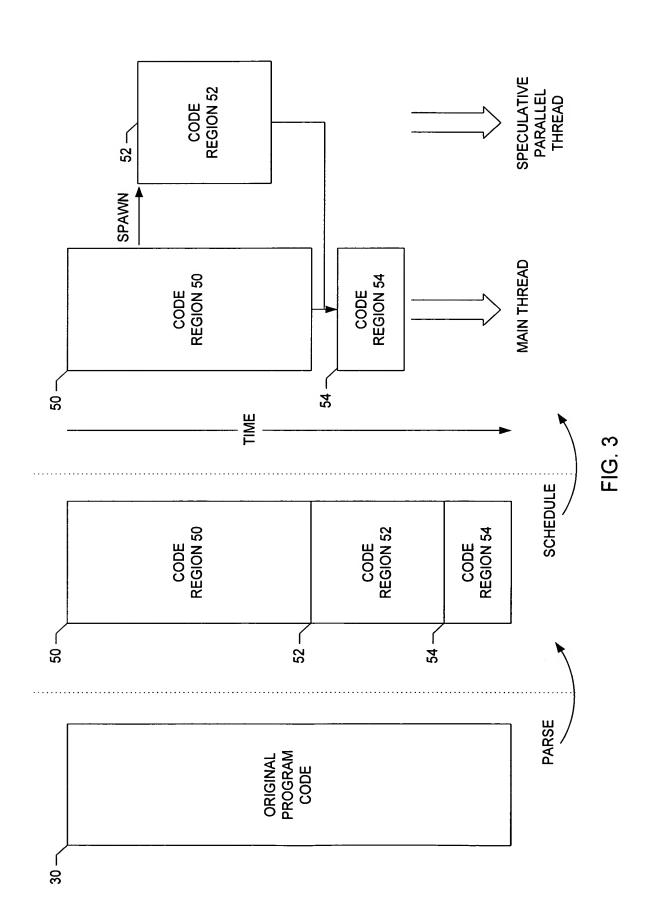
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FIG. 3

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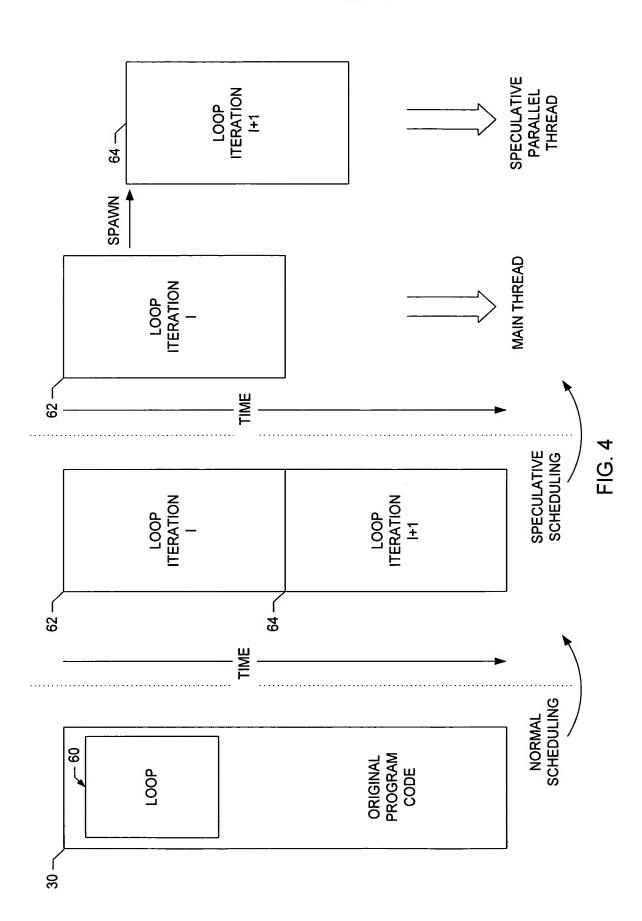
FIG. 4

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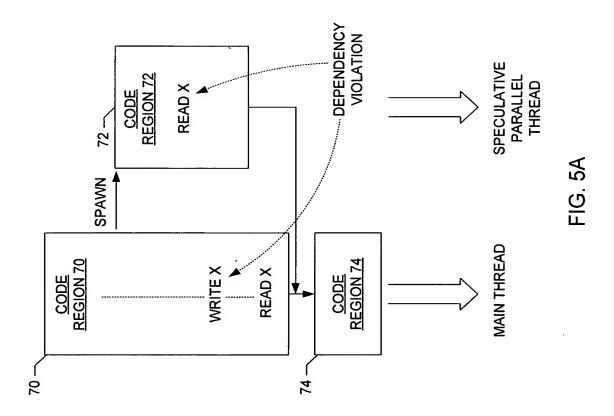
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FIG. 5A

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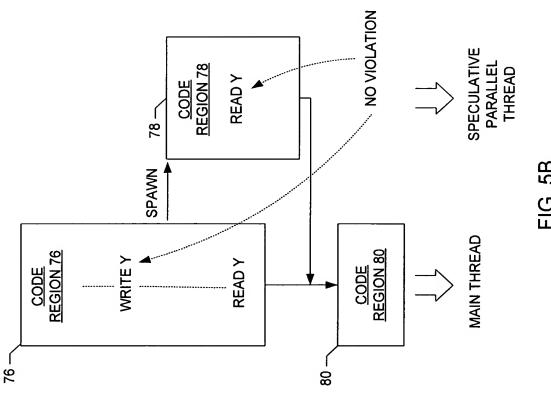


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FIG. 5B

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FIG. 5C

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NO VIOLATION SPECULATIVE PARALLEL THREAD CODE REGION 84 WRITE Z READ Z 84 SPAWN MAIN THREAD CODE REGION 82 CODE REGION 86 READ Z **WRITE Z**

86

85

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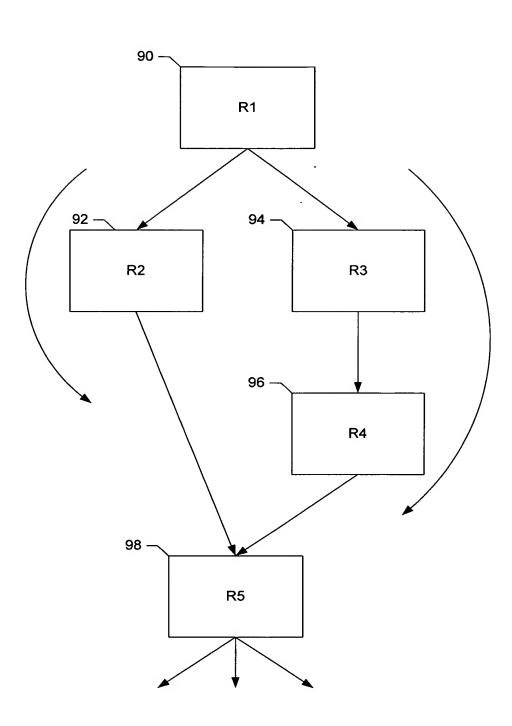


FIG. 6

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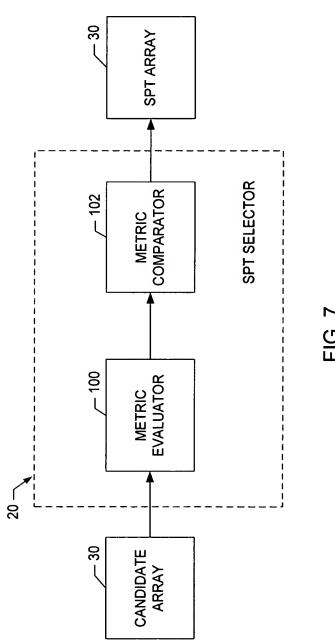
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FIG. 7

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FIG. 8A

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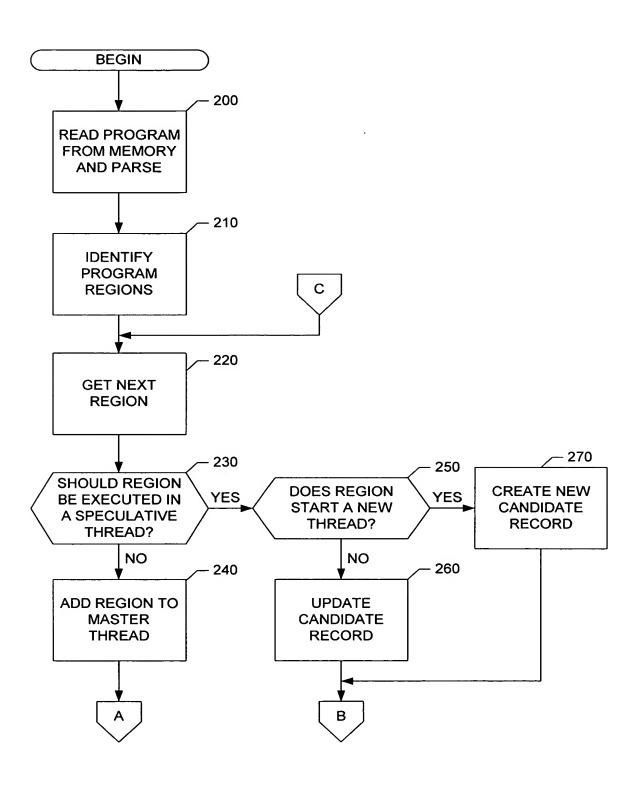


FIG. 8A

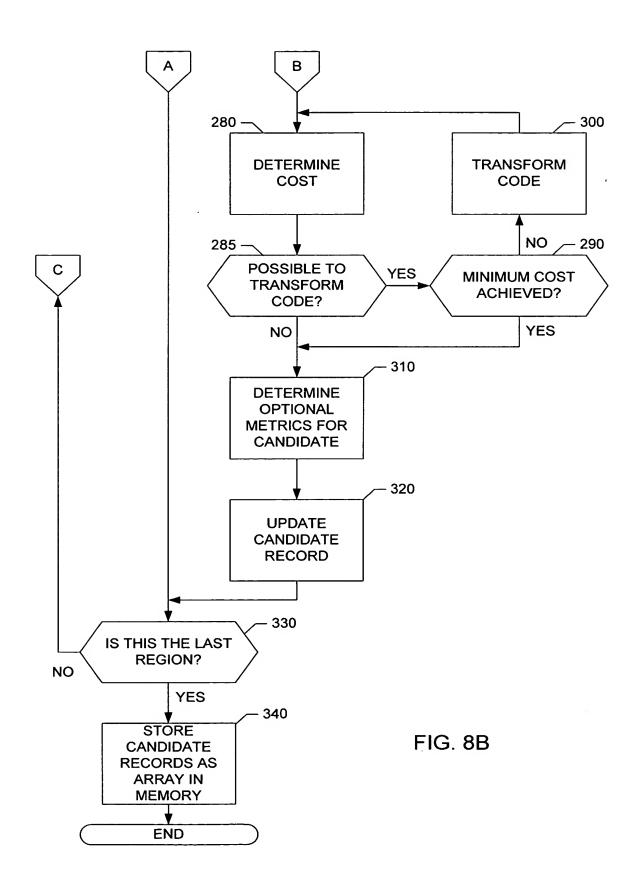
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"Methods and Apparatus to Compile Programs to Use Speculative

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FIG. 9A
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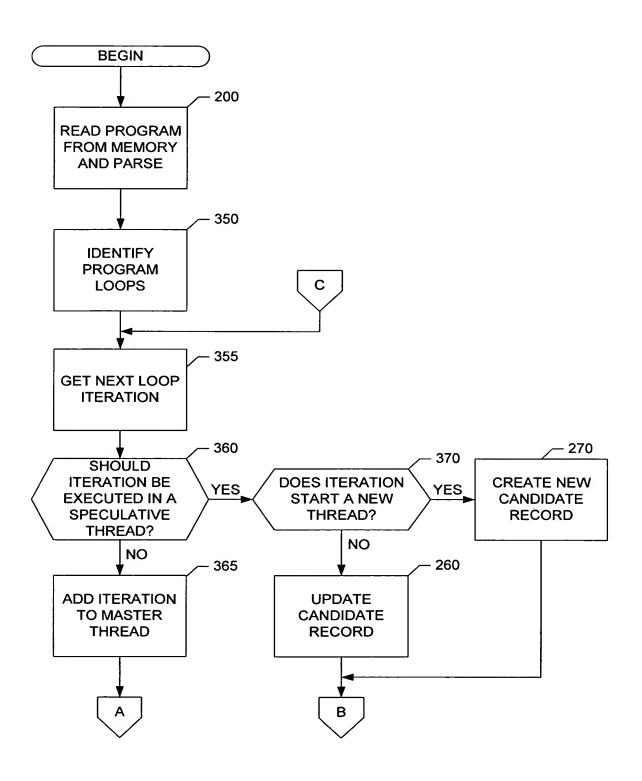


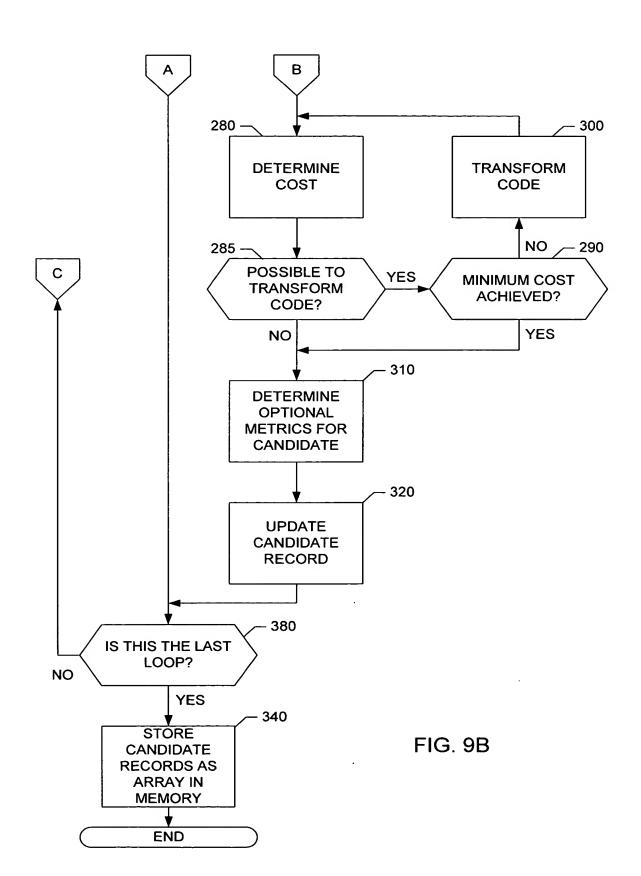
FIG. 9A

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FIG. 9B

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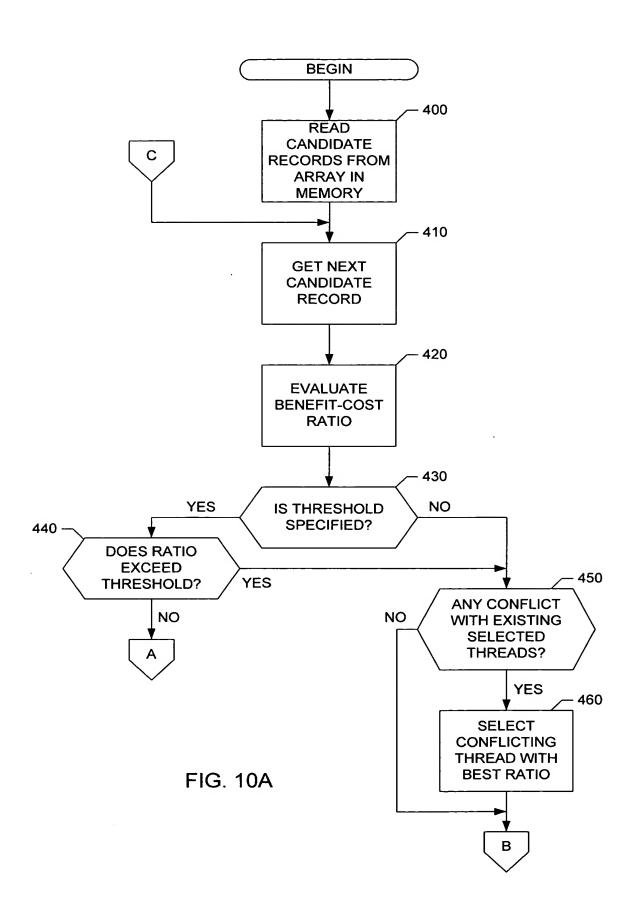


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Parallel Threads" FIG. 10A

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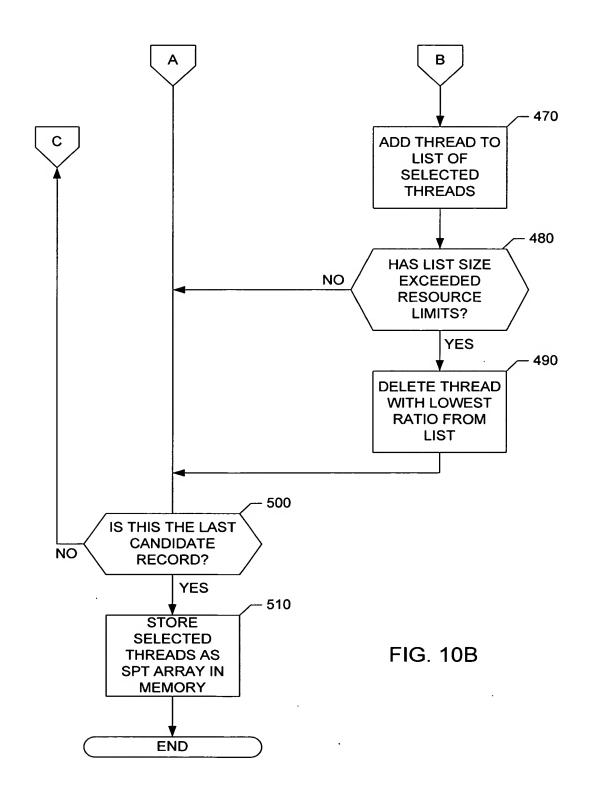
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FIG. 10B

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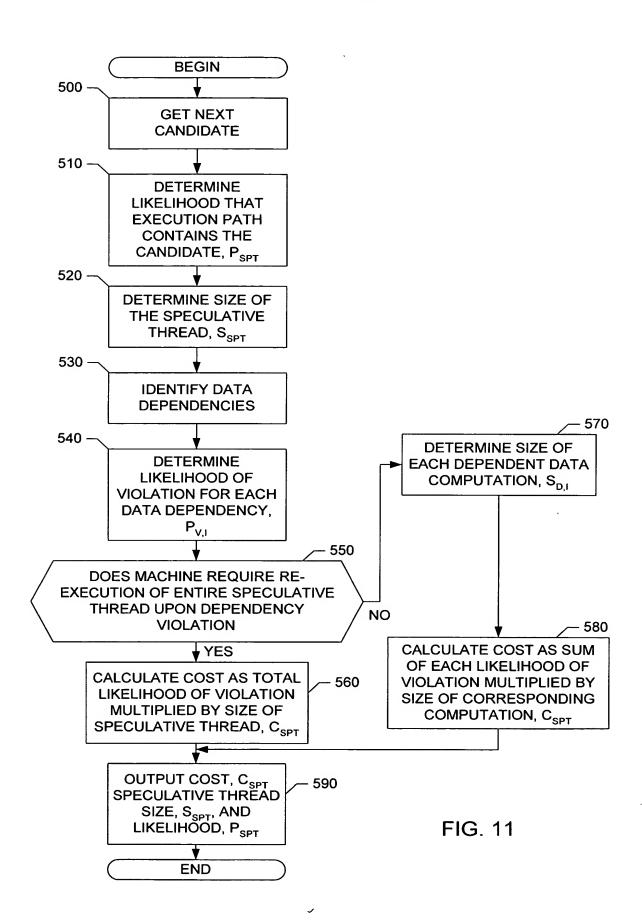
FIG. 11

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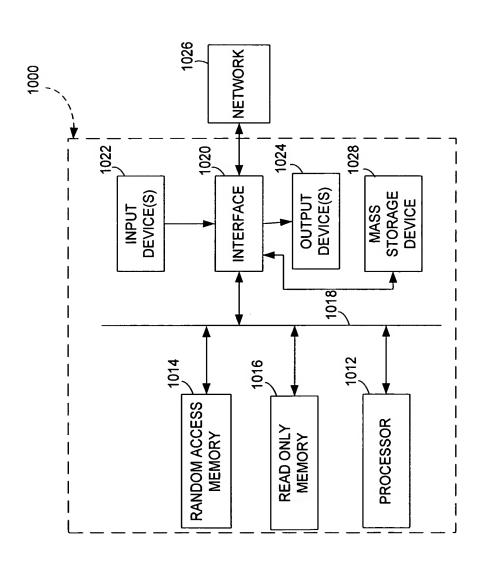
FIG. 12

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